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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/820,497

04/07/2004

Devendra Y. Raut

P8900

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06/12/2008

CENTRAL COAST PATENT AGENCY, INC
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EXAMINER

ROOT, ROBERT M

ART UNIT

PAPER NUMBER

2616

MAIL DATE

DELIVERY MODE

06/12/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/820,497	Applicant(s) RAUT ET AL.	
	Examiner ROBERT ROOT	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims 1, 3, 5, 7, 11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over David E. McDysan (US 2003/0112755) in view of Tung et al (US 5,434,913) and Keck et al (US 2004/0228414).

4. As for Claim 1, McDysan discloses an edge router (Paragraph 0021) operating Border Gateway Protocol (BGP, Paragraph 0043) in a packet network (Paragraph 0006 discloses transmitting and receiving packets) comprising:

a processor resource for processing (Paragraph 0008 discloses a processor component within each router to handle extensive processing required) events (Paragraph 0006 discloses packets);

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at least one scheduler managing all events (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) for processing by the processor resource (Paragraph 0008 discloses a processor component within each router to handle extensive processing required); and

individual event pipelines dedicated to individual ones of BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers);

wherein events received for processing (Paragraph 0048 discloses packets received); to the source of the events (Paragraph 0036 discloses source address and source port; an individual with ordinary skill in the art would acknowledge source address and port as forms of the source of packets); to be processed (Paragraph 0008 discloses a processor component within each router to handle extensive processing required); and the scheduler (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets); to the processor resource (Paragraph 0008 discloses a processor component within each router to handle extensive processing required) with preset limitation per pipeline (Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

5. McDysan does not expressly disclose at least one ready list; are posted in their associated event pipelines according; pipelines having events; insert a flag in the ready list; repetitively scans the ready list sequentially, and releases events.

6. Tung discloses in the same field of endeavor at least one ready list (Column 56, Lines 8-20 disclose a ready list); in the ready list (Column 55, Line 64 – Column 56, Line 7 discloses

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setting a flag in conjunction to the ready list); repetitively scans the ready list sequentially (Column 55, Line 64 – Column 56, Line 7 discloses information constantly added and removed from the list; an individual with ordinary skill in the art would recognize that the ready list would be repetitively scanned and sequentially because algorithms need to know what needs to get done next), and releases events (Column 55, Line 64 – Column 56, Line 7 discloses the frame is moved).

7. Tung discloses this difference for the purpose of providing real-time communication between PC systems in non-real-time environments (Column 1, Lines 20-24).

8. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the edge router disclosed by McDysan and add to it the feature as disclosed above by Tung to create an edge router operating Border Gateway Protocol in a packet network providing real-time communication between PC systems in non-real-time environments.

9. McDysan in view of Tung disclose are posted in their associated event pipelines according; pipelines having events; and insert a flag.

10. Keck discloses in the same field of endeavor are posted in their associated event pipelines according (Paragraph 0043 discloses a pipeline having buffer blocks; Paragraph 0068 discloses posting packets to buffers according to a condition); pipelines having events (Paragraph 0037 discloses buffers storing sets of posted information); and insert a flag (Paragraph 0071 discloses setting a flag).

11. Keck discloses this difference for the purpose of posting status data for a transport stream (Paragraph 0001).

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12. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined edge router of McDysan and Tung and add to it the feature as disclosed above by Keck to create an edge router operating Border Gateway Protocol in a packet network posting status data for a transport stream.

13. As for Claim 3, McDysan in view of Tung and Keck disclose the preset limitation is a time limitation (McDysan, Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

14. As for Claim 6, McDysan discloses a method for processing (Paragraph 0008 discloses a processor component within each router to handle extensive processing required) events (Paragraph 0006 discloses packets) in Border Gateway Protocol (BGP, Paragraph 0043) peering in an edge router (Paragraph 0021) in a packet network (Paragraph 0006 discloses transmitting and receiving packets), comprising acts of:

(a) received events (Paragraph 0048 discloses packets received) associated with BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers); the BGP (Paragraph 0047 discloses BGP) source (Paragraph 0036 discloses source address and source port; an individual with ordinary skill in the art would acknowledge source address and port as forms of the source of packets);

(c) by a scheduler (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets), the scheduler (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets); for each pipeline to be processed to a processing resource (Paragraph 0008

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discloses a processor component within each router to handle extensive processing required) according to a preset limitation per pipeline (Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

15. McDysan does not expressly disclose (a) placing; in dedicated pipelines according to; (b) flagging a ready list by individual pipelines having events ready to be processed; and (c) scanning the ready list sequentially and repeatedly; sending events .

16. Tung discloses in the same field of endeavor (b) a ready list by (Column 55, Line 64 – Column 56, Line 7 discloses setting a flag in conjunction to the ready list); and (c) scanning the ready list sequentially and repeatedly (Column 55, Line 64 – Column 56, Line 7 discloses information constantly added and removed from the list; an individual with ordinary skill in the art would recognize that the ready list would be repetitively scanned and sequentially because algorithms need to know what needs to get done next); sending events (Column 55, Line 64 – Column 56, Line 7 discloses the frame is moved).

17. Tung discloses this difference for the purpose of providing real-time communication between PC systems in non-real-time environments (Column 1, Lines 20-24).

18. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the method disclosed by McDysan and add to it the feature as disclosed above by Tung to create a method for processing events in Border Gateway Protocol peering in an edge router in a packet network providing real-time communication between PC systems in non-real-time environments.

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19. McDysan in view of Tung do not expressly disclose (a) placing; in dedicated pipelines according to; (b) flagging; individual pipelines having events ready to be processed.

20. Keck discloses in the same field of endeavor (a) placing (Paragraph 0068 discloses posting packets); in dedicated pipelines according to (Paragraph 0043 discloses a pipeline having buffer blocks; Paragraph 0068 discloses posting packets to buffers according to a condition); (b) flagging (Paragraph 0071 discloses setting a flag); individual pipelines having events ready to be processed (Paragraph 0037 discloses buffers storing sets of posted information).

21. Keck discloses this difference for the purpose of posting status data for a transport stream (Paragraph 0001).

22. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined method of McDysan and Tung and add to it the feature as disclosed above by Keck to create a method for processing events in Border Gateway Protocol peering in an edge router in a packet network posting status data for a transport stream.

23. As for Claim 7, McDysan in view of Tung and Keck disclose the preset limitation is a time limitation (McDysan, Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

24. As for Claim 11, As for Claim 6, McDysan discloses a method for processing (Paragraph 0008 discloses a processor component within each router to handle extensive processing required) events (Paragraph 0006 discloses packets) in Border Gateway Protocol (BGP,

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Paragraph 0043) peering in an edge router (Paragraph 0021) in a packet network (Paragraph 0006 discloses transmitting and receiving packets), comprising acts of:

(a) received events (Paragraph 0048 discloses packets received) associated with BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers); the BGP (Paragraph 0047 discloses BGP) source (Paragraph 0036 discloses source address and source port; an individual with ordinary skill in the art would acknowledge source address and port as forms of the source of packets);

(c) by a scheduler (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets), the scheduler (Paragraph 0035 discloses employing a scheduler to multiplex and forward packets); for each pipeline to be processed to a processing resource (Paragraph 0008 discloses a processor component within each router to handle extensive processing required) according to a preset limitation per pipeline (Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

25. McDysan does not expressly disclose a machine-readable medium having stored there on a set of instructions that cause a machine to perform; (a) placing; in dedicated pipelines according to; (b) flagging a ready list by individual pipelines having events ready to be processed; and (c) scanning the ready list sequentially and repeatedly; sending events .

26. Tung discloses in the same field of endeavor (b) a ready list by (Column 55, Line 64 – Column 56, Line 7 discloses setting a flag in conjunction to the ready list); and (c) scanning the ready list sequentially and repeatedly (Column 55, Line 64 – Column 56, Line 7 discloses

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information constantly added and removed from the list; an individual with ordinary skill in the art would recognize that the ready list would be repetitively scanned and sequentially because algorithms need to know what needs to get done next); sending events (Column 55, Line 64 – Column 56, Line 7 discloses the frame is moved).

27. Tung discloses this difference for the purpose of providing real-time communication between PC systems in non-real-time environments (Column 1, Lines 20-24).

28. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the method disclosed by McDysan and add to it the feature as disclosed above by Tung to create a method for processing events in Border Gateway Protocol peering in an edge router in a packet network providing real-time communication between PC systems in non-real-time environments.

29. McDysan in view of Tung do not expressly disclose a machine-readable medium having stored there on a set of instructions that cause a machine to perform; (a) placing; in dedicated pipelines according to; (b) flagging; individual pipelines having events ready to be processed.

30. Keck discloses in the same field of endeavor a machine-readable medium having stored there on a set of instructions that cause a machine to perform (Paragraph 0008 discloses driver software processing; an individual with ordinary skill in the art would recognize a hard drive would be required to store software for processing); (a) placing (Paragraph 0068 discloses posting packets); in dedicated pipelines according to (Paragraph 0043 discloses a pipeline having buffer blocks; Paragraph 0068 discloses posting packets to buffers according to a condition); (b) flagging (Paragraph 0071 discloses setting a flag); individual pipelines having events ready to be processed (Paragraph 0037 discloses buffers storing sets of posted information).

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31. Keck discloses this difference for the purpose of posting status data for a transport stream (Paragraph 0001).

32. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined method of McDysan and Tung and add to it the feature as disclosed above by Keck to create a machine-readable medium having stored there on a set of instructions that cause a machine to perform a method for processing events in Border Gateway Protocol peering in an edge router in a packet network posting status data for a transport stream.

33. As for Claim 12, McDysan in view of Tung and Keck disclose the preset limitation is a time limitation (McDysan, Paragraph 0035 discloses running on a Time Division Multiplexed channel; an individual with ordinary skill in the art would recognize Time Division Multiplex, TDM, as a preset limitation per pipeline).

34. Claims 2, 4-5, 7, 9-10, 12, and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over David E. McDysan (US 2003/0112755) in view of Tung et al (US 5,434,913) and Keck et al (US 2004/0228414) and further in view of Bryers et al (US 2003/0126233).

35. As for Claim 2, McDysan in view of Tung and Keck disclose individual ones of the BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers); away from the packet network (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as external to the edge router and away from the packet network).

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36. McDysan in view of Tung and Keck do not expressly disclose are virtual private routed networks (VPRNs).

37. Bryers discloses in the same field of endeavor are virtual private routed networks (VPRNs, Paragraph 0218).

38. Bryers discloses this difference for the purpose of providing an architecture for controlling a content services aggregator-a device which provides a number of services. The architecture is designed to provide the services on a processor system (Paragraph 0077).

39. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined edge router of McDysan, Tung, and Keck and add to it the feature as disclosed above by Bryers to create an edge router operating Border Gateway Protocol in a packet network with an architecture for controlling a content services aggregator.

40. As for Claim 4, McDysan in view of Tung and Keck further in view of Bryers disclose the preset limitation is a buffer limitation (Bryers, Paragraph 0318 discloses a data array having a 64 byte cache line and formed by 8 8k buffers).

41. As for Claim 5, McDysan in view of Tung and Keck further in view of Bryers disclose a first (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and a second scheduler (Bryers, Paragraph 0307), a first (Tung, Column 56, Lines 8-20 disclose a ready list) and a second ready list (Bryers, Paragraph 0225 discloses a routing table), and pipelines dedicated to events associated with both VPRNs (Bryers, Paragraph 0218 discloses VPRN) and core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize

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as peers) in the service provider network (Bryers, Paragraph 0005 discloses network provided by a service provider), wherein the pipelines associated with VPRNs (Bryers, Paragraph 0218 discloses VPRN having tunnels) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the first scheduler (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and the first ready list (Tung, Column 56, Lines 8-20 disclose a ready list), and the pipelines associated with the core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the second scheduler (Bryers, Paragraph 0307) and the second ready list (Bryers, Paragraph 0225 discloses a routing table).

42. As for Claim 7, McDysan in view of Tung and Keck disclose individual ones of the BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers); away from the packet network (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as external to the edge router and away from the packet network).

43. McDysan in view of Tung and Keck do not expressly disclose are virtual private routed networks (VPRNs).

44. Bryers discloses in the same field of endeavor are virtual private routed networks (VPRNs, Paragraph 0218).

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45. Bryers discloses this difference for the purpose of providing an architecture for controlling a content services aggregator-a device which provides a number of services. The architecture is designed to provide the services on a processor system (Paragraph 0077).

46. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined machine-readable medium having stored there on a set of instructions that cause a machine to perform a method of McDysan, Tung, and Keck and add to it the feature as disclosed above by Bryers to create a machine-readable medium having stored there on a set of instructions that cause a machine to perform a method for processing events in Border Gateway Protocol peering in an edge router in a packet network posting status data for a transport stream.

47. As for Claim 9, McDysan in view of Tung and Keck further in view of Bryers disclose the preset limitation is a buffer limitation (Bryers, Paragraph 0318 discloses a data array having a 64 byte cache line and formed by 8 8k buffers, which an individual with ordinary skill in the art would recognize as a limitation to how much data gets stored within the buffer).

48. As for Claim 10, McDysan in view of Tung and Keck further in view of Bryers disclose a first (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and a second scheduler (Bryers, Paragraph 0307), a first (Tung, Column 56, Lines 8-20 disclose a ready list) and a second ready list (Bryers, Paragraph 0225 discloses a routing table), and pipelines dedicated to events associated with both VPRNs (Bryers, Paragraph 0218 discloses VPRN) and core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers) in the service provider network (Bryers, Paragraph 0005 discloses network provided by

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a service provider), wherein the pipelines associated with VPRNs (Bryers, Paragraph 0218 discloses VPRN having tunnels) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the first scheduler (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and the first ready list (Tung, Column 56, Lines 8-20 disclose a ready list), and the pipelines associated with the core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the second scheduler (Bryers, Paragraph 0307) and the second ready list (Bryers, Paragraph 0225 discloses a routing table).

49. As for Claim 12, McDysan in view of Tung and Keck disclose individual ones of the BGP peers (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers); away from the packet network (Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as external to the edge router and away from the packet network).

50. McDysan in view of Tung and Keck do not expressly disclose are virtual private routed networks (VPRNs).

51. Bryers discloses in the same field of endeavor are virtual private routed networks (VPRNs, Paragraph 0218).

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52. Bryers discloses this difference for the purpose of providing an architecture for controlling a content services aggregator-a device which provides a number of services. The architecture is designed to provide the services on a processor system (Paragraph 0077).

53. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the combined a machine-readable medium having stored there on a set of instructions that cause a machine to perform a method of McDysan, Tung, and Keck and add to it the feature as disclosed above by Bryers to create a machine-readable medium having stored there on a set of instructions that cause a machine to perform a method for processing events in Border Gateway Protocol peering in an edge router in a packet network posting status data for a transport stream.

54. As for Claim 14, McDysan in view of Tung and Keck further in view of Bryers disclose the preset limitation is a buffer limitation (Bryers, Paragraph 0318 discloses a data array having a 64 byte cache line and formed by 8 8k buffers, which an individual with ordinary skill in the art would recognize as a limitation to how much data gets stored within the buffer).

55. As for Claim 15, McDysan in view of Tung and Keck further in view of Bryers disclose a first (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and a second scheduler (Bryers, Paragraph 0307), a first (Tung, Column 56, Lines 8-20 disclose a ready list) and a second ready list (Bryers, Paragraph 0225 discloses a routing table), and pipelines dedicated to events associated with both VPRNs (Bryers, Paragraph 0218 discloses VPRN) and core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers) in the service provider network (Bryers, Paragraph 0005 discloses network provided by

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a service provider), wherein the pipelines associated with VPRNs (Bryers, Paragraph 0218 discloses VPRN having tunnels) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the first scheduler (McDysan, Paragraph 0035 discloses employing a scheduler to multiplex and forward packets) and the first ready list (Tung, Column 56, Lines 8-20 disclose a ready list), and the pipelines associated with the core BGP peers (McDysan, Paragraph 0047 discloses tunnels being used between routers on a VPN using BGP, which an individual with ordinary skill in the art would recognize as peers) communicate (Keck, Paragraph 0042 discloses passing information among the various stages in a pipeline fashion) with the second scheduler (Bryers, Paragraph 0307) and the second ready list (Bryers, Paragraph 0225 discloses a routing table).

Response to Arguments

56. Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

57. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent Document	Inventor(s)	Publication Date
7,200,114	Elizabeth Suet H. Tse-Au	April 3, 2007
7,382,787	Barnes et al	June 3, 2008
2006/0174336	Jyshyang Chen	August 3, 2006

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT ROOT whose telephone number is 571-270-1960. The examiner can normally be reached on Monday to Friday from 7:30am to 5:00pm Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert Root/
Examiner, Art Unit 2616
/Huy D. Vu/
Supervisory Patent Examiner, Art Unit 2616